

Stormwater C.3 Update

Requirements for New Development and Redevelopment Projects

June 2006

Changes coming

- Size threshold for C.3 compliance drops to 10,000 square feet for applications "deemed complete" August 15, 2006 or after.
- Peak flow and duration control (HMP) requirements begin October 12, 2006 and apply to projects creating or replacing an acre or more impervious area.
- The Clean Water Program plans to publish an updated Stormwater C.3 Guidebook before September 1, 2006.

Approval pending

- Implementation of Contra Costa's Hydrograph Modification Management Plan (HMP) is contingent on Regional Water Board approval. The Regional Water Board will consider a Tentative Order approving Contra Costa's HMP July 12, 2006.

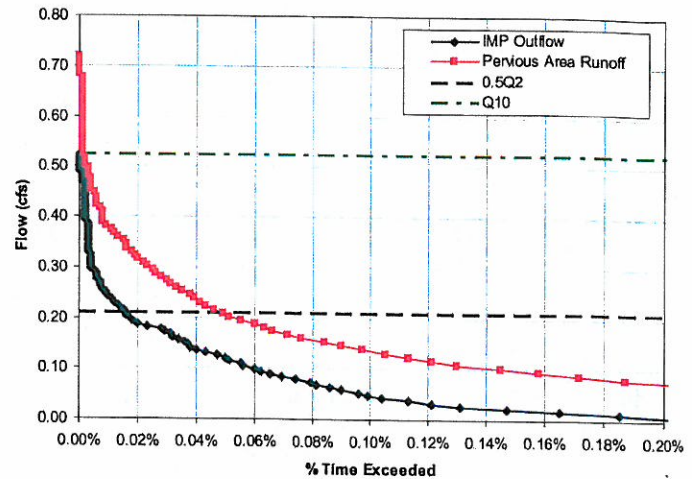


Peak Flow and Duration Control

Beginning October 12, 2006, Contra Costa new development projects must be designed so post-project runoff does not exceed estimated pre-project rates or durations.

This new "HMP" requirement applies to projects creating or replacing more than an acre of impervious area. Regulations already in effect require runoff from these projects to be treated prior to discharge from the site.

In 2003, the California Regional Water Quality Control Boards for the San Francisco Bay Region and the Central Valley Region revised Provision "C.3" in the NPDES permit governing discharges from the municipal storm drain systems of Contra Costa County, its cities and towns. The "C.3" permit provision is being phased in



Continuous simulation of runoff flow durations from an acre of pervious area (Group "D" clay soils) and an acre of paved area draining through a stormwater infiltration planter. Based on hourly rainfall data 1948-2004.

from 2004 through 2006.

Contra Costa municipalities jointly submitted a Hydrograph Modification Management Plan (HMP) in May 2005.

The HMP provides project applicants with four options

to demonstrate compliance with the Water Boards' requirements.

The HMP will be incorporated into an updated edition of the Clean Water Program's *Stormwater C.3 Guidebook*, due September 1.

Soon, smaller projects must treat runoff

The C.3 project size threshold changes August 15, 2006. The requirements will apply to projects that create or replace 10,000 square feet or more impervious area.

Already, development applications for projects creating

ore replacing an acre or more impervious area must be accompanied by a Stormwater Control Plan. The Stormwater Control Plan must contain descriptions and an exhibit showing how runoff will be treated prior to discharge from the site.

A *Stormwater C.3 Guidebook*, available on the Clean Water Program's website, details how to prepare a Stormwater Control Plan and provides design guidance.

Go to www.cccleanwater.org.

Do C.3 requirements apply to your project?

| Threshold | Start Date | Requirement |
|--|--|---|
| Group 1: Commercial, industrial, or residential developments that create one acre or more of impervious surface, and projects on previously developed sites that result in addition or replacement, which combined, total an acre or more of impervious surface. | Development applications deemed complete February 15, 2005 or later. | Treatment measures as specified in the NPDES Permit and <i>Stormwater C.3 Guidebook</i> . |
| | Development applications deemed complete October 12, 2006 or later. | Treatment measures, plus runoff flow control so post-project runoff does not exceed estimated pre-project rates or durations. Demonstrate compliance using one of four options described in the HMP Standard (see below). |
| Group 2: Same as Group 1, but threshold reduced to 10,000 square feet impervious area. | Development applications deemed complete August 15, 2006 or later. | Treatment measures as specified in the NPDES Permit and <i>Stormwater C.3 Guidebook</i> . |

Four options to demonstrate HMP compliance

| What must be demonstrated | How applicants can comply | Stormwater Control Plan submittal requirements |
|--|---|--|
| Option 1: No increase in impervious area. | Compare the project design to the pre-project condition and show the project will not increase impervious area and also will not facilitate the efficiency of drainage collection and conveyance. | Inventory and accounting of existing and proposed impervious areas, measures to reduce imperviousness, and a qualitative comparison of pre- and post-project drainage efficiency. |
| Option 2: Integrated Management Practices | Select and size IMPs to manage hydrograph modification impacts, using the design procedure, criteria, and sizing factors specified in the Contra Costa Clean Water Program's <i>Stormwater C.3 Guidebook</i> . Use of these IMPs will also meet treatment requirements. | Submittal requirements will be similar to current <i>Stormwater C.3 Guidebook</i> . Design procedure and IMPs will be as in Chapter 5 and Appendix C, but with updated sizing factors and IMP design criteria. |
| Option 3: Post-project runoff does not exceed pre-project rates or durations. | Use a continuous-simulation model and 30 years or more of hourly rainfall data to simulate pre-project and post-project runoff, including the effect of proposed IMPs, detention basins, or other stormwater management facilities. | Model parameters and modeling techniques are specified in HMP Attachment 3, which will be incorporated into the revised <i>Stormwater C.3 Guidebook</i> . |
| Option 4: Increases in runoff peaks and durations will not accelerate erosion of downstream stream reaches. | | |
| 4a: All downstream reaches are at "low risk" of erosion | Show that all downstream channels between the project site and the Bay/Delta are enclosed pipes, are engineered hardened channels, are subject to tidal action, or are aggrading. | Report or letter report by an engineer or qualified environmental professional documenting drainage between the project site and the Bay or Delta. |
| 4b and 4c: Erosion risks are mitigated by in-stream restoration projects. | Propose and implement appropriate in-stream restoration projects to fully mitigate potential risk. | Requires additional regulatory approvals. See the Hydrograph Modification Management Standard. |

This fact sheet is a summary only. See the Regional Water Board Order and the Clean Water Program's HMP and *Stormwater C.3 Guidebook* for actual requirements.

June 2006